

AMENDMENTS TO THE CLAIMS

1. **(Currently amended)** A piezoelectric actuator comprising:

a flexible substrate ~~separated by~~ including a slit so as to form ~~two separate flexible substrates in a same plane, said two flexible substrates comprising~~ a first flexible substrate and a second flexible substrate, said first and second flexible substrates being positioned in a same plane and being separated by the slit; that are separated from each other;

a first piezoelectric element unit disposed on said first flexible substrate;

a second piezoelectric element unit disposed on said second flexible substrate approximately in parallel with said first piezoelectric element unit such that said first and second piezoelectric element units are separated from each other by the slit; and

a coupling portion that extends across the slit operable to couple and couples said separated first flexible substrate to and said second flexible substrate across the slit and to suppress a wavy resonance phenomenon of said flexible substrate. first flexible substrate and said second flexible substrate, wherein said coupling portion is positioned to correspond to a location of an antinode of a primary bending mode of said first piezoelectric element unit and said second piezoelectric element unit, wherein each of said first and second piezoelectric element units includes a first end and a second end, wherein said first and second ends of said first piezoelectric element unit are fixed on said first flexible substrate, and wherein said first and second ends of said second piezoelectric element unit are fixed on said second flexible substrate.

2. **(Withdrawn)** A piezoelectric actuator comprising:

a flexible substrate separated by a slit;

a first piezoelectric element unit disposed on one of said separated flexible substrates;

a second piezoelectric element unit disposed on another said separated flexible substrate approximately in parallel with said first piezoelectric element unit; and

a coupling portion provided in the longitudinal center of said piezoelectric element unit to couple said separated flexible substrates across said slit.

3. **(Cancelled)**
4. **(Previously presented)** The piezoelectric actuator according to claim 1, wherein said coupling portion is composed of a wiring material provided on said flexible substrate.
5. **(Withdrawn)** The piezoelectric actuator according to claim 1, wherein said coupling portion is constructed by a plurality of ladder shaped coupling portions.
6. **(Original)** The piezoelectric actuator according to claim 4, wherein said wiring material is in common use for said first piezoelectric element unit and said second piezoelectric element unit.
7. **(Currently Amended)** The piezoelectric actuator according to claim 1, wherein said coupling portion is provided across said ~~separated~~ first and second flexible substrates, and the thickness of said coupling portion is larger than the width of said coupling portion.
8. **(Currently Amended)** The piezoelectric actuator according to claim 1, wherein said first piezoelectric element unit and said second piezoelectric element unit ~~make a displacement~~ are configured to move in opposite directions with respect to each other.
9. **(Currently Amended)** The piezoelectric actuator according to claim 1, wherein said first piezoelectric element unit and said second piezoelectric element unit each ~~have~~ comprise a thin film piezoelectric body, respectively.
10. **(Currently Amended)** The piezoelectric actuator according to claim 9, wherein said first piezoelectric element unit and said second piezoelectric element unit form a multilayered structure ~~using~~ including two thin film piezoelectric element bodies, each of the bodies comprising a thin film piezoelectric element covered by a metal coating layer

on top and bottom surfaces of the bodies, with an adhesive layer sandwiched between the top and bottom surfaces of the bodies.

11. **(Currently Amended)** A disk drive comprising:

- (a) a disk;
- (b) a head slider equipped with a magnetic head;
- (c) a flexure to fix said head slider;
- (d) an arm to be fixed with said flexure;
- (e) a first positioning ~~means~~device configured to move said arm

~~roughly through a rough displacement~~; and

(f) a second positioning ~~means~~device configured to make said head slider fixed on said arm perform a fine displacement,

wherein said second positioning ~~means~~device is composed of an actuator having a piezoelectric element, and said actuator is the piezoelectric actuator according to claim 1.

12. **(Withdrawn)** The piezoelectric actuator according to claim 2, wherein said coupling portion is composed of a wiring material provided on said flexible substrate.

13. **(Withdrawn)** The piezoelectric actuator according to claim 2, wherein said coupling portion is constructed by a plurality of ladder shaped coupling portions.

14. **(Withdrawn – Currently Amended)** The piezoelectric actuator according to claim 2, wherein said coupling portion is provided across ~~separated~~said first and second flexible substrates and ~~the~~a thickness of said coupling portion is larger than ~~the~~a width of said coupling portion.

15. **(Withdrawn – Currently Amended)** The piezoelectric actuator according to claim 2, wherein said first piezoelectric element unit and said second piezoelectric element unit ~~make a displacement~~are configured to move in opposite directions with respect to each other.

16. **(Withdrawn – Currently Amended)** The piezoelectric actuator according to claim 2, wherein each of said first piezoelectric element unit and said second piezoelectric element unit ~~has~~ comprises a thin film piezoelectric body ~~respectively~~.

17. **(Withdrawn – Currently Amended)** A disk drive comprising at least:

- (a) a disk;
- (b) a head slider equipped with a magnetic head;
- (c) a flexure to fix said head slider;
- (d) an arm to be fixed with said flexure;
- (e) a first positioning ~~means~~ device configured to move said arm ~~roughly through a rough displacement~~; and
- (f) a second positioning ~~means~~ device configured to make said head slider fixed on said arm perform a fine displacement,

wherein said second positioning ~~means~~ device is composed of an actuator having a piezoelectric element, and said actuator is the piezoelectric actuator according to claim 2.

18. **(Cancelled)**

19. **(Currently Amended)** A disk drive comprising:

- (a) a disk;
- (b) a head slider equipped with a magnetic head;
- (c) a flexure to fix said head slider;
- (d) an arm to be fixed with said flexure;
- (e) a first positioning ~~means~~ device configured to move said arm ~~roughly through a rough displacement~~; and
- (f) a second positioning ~~means~~ device configured to make said head slider fixed on said arm perform a fine displacement,

wherein said second positioning ~~means-device~~ is composed of an actuator having a piezoelectric element, said actuator being said piezoelectric actuator according to claim 4.

20. **(Withdrawn – Currently Amended)** A disk drive comprising:

- (a) a disk;
- (b) a head slider equipped with a magnetic head;
- (c) a flexure to fix said head slider;
- (d) an arm to be fixed with said flexure;
- (e) a first positioning ~~means-device configured~~ to move said arm

~~roughly through a rough displacement~~; and

(f) a second positioning ~~means-device configured~~ to make said head slider fixed on said arm perform a fine displacement,

wherein said second positioning ~~means-device~~ is composed of an actuator having a piezoelectric element, said actuator being piezoelectric actuator according to claim 5.

21. **(Currently Amended)** A disk drive comprising:

- (a) a disk;
- (b) a head slider equipped with a magnetic head;
- (c) a flexure to fix said head slider;
- (d) an arm to be fixed with said flexure;
- (e) a first positioning ~~means-device configured~~ to move said arm

~~roughly through a rough displacement~~; and

(f) a second positioning ~~means-device configured~~ to make said head slider fixed on said arm perform a fine displacement,

wherein said second positioning ~~means-device~~ is composed of an actuator having a piezoelectric element, said actuator being said piezoelectric actuator according to claim 6.

22. **(Currently Amended)** A disk drive comprising:

- (a) a disk;

(b) a head slider equipped with a magnetic head;
(c) a flexure to fix said head slider;
(d) an arm to be fixed with said flexure;
(e) a first positioning ~~means~~ device configured to move said arm
~~roughly through a rough displacement~~; and
(f) a second positioning ~~means~~ device configured to make said head slider
fixed on said arm perform a fine displacement,
wherein said second positioning ~~means~~ device is composed of an actuator having
a piezoelectric element, said actuator being said piezoelectric actuator according to claim
7.

23. **(Currently Amended)** A disk drive comprising:

(a) a disk;
(b) a head slider equipped with a magnetic head;
(c) a flexure to fix said head slider;
(d) an arm to be fixed with said flexure;
(e) a first positioning ~~means~~ device configured to move said arm
~~roughly through a rough displacement~~; and
(f) a second positioning ~~means~~ device configured to make said head slider
fixed on said arm perform a fine displacement,
wherein said second positioning ~~means~~ device is composed of an actuator having
a piezoelectric element, said actuator being said piezoelectric actuator according to claim
8.

24. **(Currently Amended)** A disk drive comprising:

(a) a disk;
(b) a head slider equipped with a magnetic head;
(c) a flexure to fix said head slider;
(d) an arm to be fixed with said flexure;
(e) a first positioning ~~means~~ device configured to move said arm
~~roughly through a rough displacement~~; and

(f) a second positioning ~~means~~device configured to make said head slider fixed on said arm perform a fine displacement,

wherein said second positioning ~~means~~device is composed of an actuator having a piezoelectric element, said actuator being said piezoelectric actuator according to claim 9.

25. **(Currently Amended)** A disk drive comprising:

- (a) a disk;
- (b) a head slider equipped with a magnetic head;
- (c) a flexure to fix said head slider;
- (d) an arm to be fixed with said flexure;
- (e) a first positioning ~~means~~device configured to move said arm

~~roughly~~through a rough displacement; and

(f) a second positioning ~~means~~device configured to make said head slider fixed on said arm perform a fine displacement,

wherein said second positioning ~~means~~device is composed of an actuator having a piezoelectric element, said actuator being said piezoelectric actuator according to claim 10.